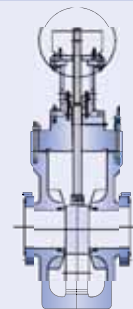




OMB manufactures both API 6A & 6D compliant Through Conduit Gate Valves (TCGV) designed as full bore, slab gate with primary downstream sealing, non-rising stem, and floating seats for positive bubble tight shut off and sealing at high and low differential pressure. Fully piggable designs ensure that the seats are well protected from process solids and gate skirts minimise the level of solids entering the valve cavity during valve operation. OMB utilizes multi stems seals to provide a secure multi barrier to the atmosphere. Seats are sealed to the body via lip seal, these seals are energized with Springs to provide a mechanical pre load. The seat to gate metal to metal sealing surface is Tungsten Carbide coated providing high resistance to erosion whilst maintaining a low coefficient of friction. As part of our standard supply for manual and

hydraulically actuated gate valves a metal to metal back seat seal is provided with the gate in the closed position. Mechanical end stops are provided to ensure correct bore alignment and the setting of position indication. Body cavity plugs are supplied for the purpose of providing flushing, drain and vent facilities with high integrity sealing capabilities.

CONSTRUCTION



KEY FEATURES ARE:

- ✓ FULL BORE, PIGGABLE
- ✓ BI DIRECTIONAL SEALING.
- ✓ BUBBLE TIGHT SEALING.
- ✓ METAL TO METAL SEALING



CLASS DIAMETER	CLASS 150 FB	CLASS 300 FB	CLASS 600 FB	CLASS 900 FB	CLASS 1500 FB	CLASS 2500 FB
1/2"						
3/4"						
1"						
1 1/2"						
2"	●	●	●	●	●	●
3"	●	●	●	●	●	●
4"	●	●	●	●	●	●
6"	●	●	●	●	●	●
8"	●	●	●	●	●	●
10"	●	●	●	●	●	●
12"	●	●	●	●	●	●
14"	●	●	●	●	●	
16"	●	●	●	●	●	
18"	●	●	●	●	●	
20"	●	●	●	●	●	
22"	●	●	●	●	●	
24"	●	●	●	●	●	
26"	●	●	●	●	●	
28"	●	●	●	●	●	
30"	●	●	●	●	●	
32"	●	●	●	●	●	
34"	●	●	●	●	●	
36"	●	●	●	●	●	

Applicable Standards

API 6D LICIENCE No 6D-0286

API 6A LICIENCE No 6A-0778

API Spec. Q1

API 6D (EN ISO 14313) Pipeline Transportation Systems-Pipeline Valves.

API 598 (Inspection Testing)

API 14D Sand Slurry (Annex I API 6A)

ASME B16.34

(Vales-Flanged, Threaded and Welding end)

ASME B16.5 (Pipe Flanges and Flanged Fittings)

ASME B16.10 (Face to Face Dimensions)

ASME B16.25 (Butt weld ends)

ASME

(Boiler and Pressure vessel Code II, V, VIII, X)

ASME B31.8

Gas transmission and Distribution piping systems.

ASME B31.4

Liquid Petroleum transmission piping systems.

BS EN ISO 10497-Fire Testing.

BS EN 12266 – 1/2. (Testing Of Valves)

BS EN ISO 4406 (Hydraulic Fluid Cleanliness)

BS EN 10204 (Metallic Products Inspection Documents)

EU Pressure Equipment Directive.

EN ISO 9001:2000

ISO 5208 (industrial valves pressure testing)

NACE MR0175 / ISO 15156

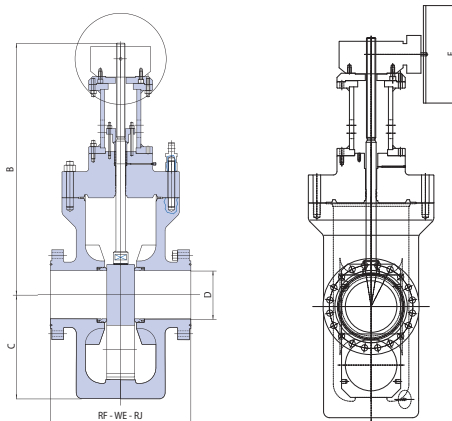
(Sulphide Stress Cracking Resistant Materials for offshore applications)

NOROSK L-001 - Piping and Valves.

NOROSK M-630 - Material Data Sheets for Piping.

NOROSK M-650 - Qualification of Manufacturers of special materials.





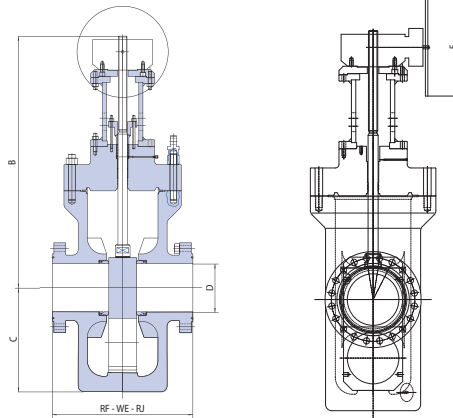
ASME CLASS 150 FULL BORE

SLAB							
SIZE		D	RF	WE	B	C	E
2	in.	2.00	7.00	8.50	16.53	5.27	9.80
50	mm	51	178	216	420	134	250
3	in.	3.00	8.00	11.13	20.27	7.08	9.80
80	mm	76	203	283	515	180	250
4	in.	4.00	9.00	12.00	23.07	8.86	9.80
100	mm	102	229	305	586	225	250
6	in.	6.00	10.51	15.87	32.20	12.20	9.80
150	mm	152	267	403	818	310	250
8	in.	8.00	11.50	16.50	40.62	15.55	9.80
200	mm	203	292	419	1032	395	250
10	in.	10.00	13.00	18.00	49.80	19.17	9.80
250	mm	254	330	457	1265	487	250
12	in.	12.00	14.01	19.76	58.74	22.16	15.75
300	mm	305	356	502	1492	563	400
14	in.	14.00	15.00	22.52	63.18	24.01	15.75
350	mm	356	381	572	1605	610	400
16	in.	16.00	15.98	24.01	71.06	27.56	20.86
400	mm	406	406	610	1805	700	530
18	in.	18.00	17.00	25.98	78.15	35.04	20.86
450	mm	457	432	660	1985	890	530
20	in.	20.00	18.00	28.00	85.24	37.60	20.86
500	mm	508	457	711	2165	955	530
22	in.	22.00	20.00	30.00	94.88	40.75	20.86
550	mm	559	508	762	2410	1035	530
24	in.	24.00	20.00	32.00	101.10	46.46	20.86
600	mm	610	508	813	2568	1180	530
26	in.	26.00	22.00	34.01	108.78	48.82	20.86
650	mm	660	559	864	2763	1240	530
28	in.	28.00	24.01	35.98	116.57	50.86	20.86
700	mm	711	610	914	2961	1292	530
30	in.	30.00	25.98	35.98	123.54	54.45	20.86
750	mm	762	660	914	3138	1383	530
32	in.	32.00	28.00	38.00	131.26	57.28	20.86
800	mm	813	711	965	3334	1455	530
34	in.	34.00	30.00	40.00	139.76	57.67	20.86
850	mm	864	760	1016	3550	1465	530
36	in.	36.00	32.00	40.00	145.98	66.30	20.86
900	mm	914	813	1016	3708	1684	530

ASME CLASS 300 FULL BORE

SLAB							
SIZE		D	RF	WE	B	C	E
2	in.	2.00	8.50	8.50	16.50	5.00	9.80
50	mm	51	216	216	420	130	250
3	in.	3.00	11.14	11.14	20.00	7.28	9.80
80	mm	76	283	283	520	185	250
4	in.	4.00	12.00	12.00	32.34	8.93	8.80
100	mm	102	305	305	593	227	225
6	in.	6.00	15.86	15.86	36.00	13.00	10.60
150	mm	152	403	403	912	330	270
8	in.	8.00	16.50	16.50	51.65	16.00	13.40
200	mm	203	419	419	1312	410	340
10	in.	10.00	18.00	18.00	53.00	18.90	20.86
250	mm	254	457	457	1350	480	530
12	in.	12.00	19.76	19.76	58.46	19.90	20.86
300	mm	305	502	502	1485	505	530
14	in.	14.00	30.00	30.00	67.00	25.00	20.86
350	mm	356	762	762	1700	634	530
16	in.	16.00	33.00	33.00	74.40	28.35	20.86
400	mm	406	838	838	1890	720	530
18	in.	18.00	36.00	36.00	79.00	31.00	20.86
450	mm	457	914	914	2000	790	530
20	in.	20.00	39.00	39.00	90.50	34.00	20.86
500	mm	508	991	991	2300	870	530
22	in.	22.00	43.00	43.00	95.00	37.00	20.86
550	mm	559	1092	1092	2410	950	530
24	in.	24.00	45.00	45.00	100.00	40.00	20.86
600	mm	610	1143	1143	2548	1005	530
26	in.	26.00	49.00	49.00	118.70	43.70	20.86
650	mm	660	1245	1245	3015	1110	530
28	in.	28.00	53.00	53.00	126.00	48.00	20.86
700	mm	711	1346	1346	3200	1220	530
30	in.	30.00	55.00	55.00	133.00	54.70	20.86
750	mm	762	1397	1397	3380	1390	530
32	in.	32.00	60.00	60.00	141.70	57.50	20.86
800	mm	813	1524	1524	3600	1460	530
34	in.	34.00	64.00	64.00	150.00	58.00	20.86
850	mm	864	1626	1626	3820	1480	530
36	in.	36.00	68.00	68.00	159.00	61.00	20.86
900	mm	914	1727	1727	4050	1550	530

The valve details on this page are the standard production range only, for other size valves or end configurations please consult the factory. Note OMB reserves the right to make modifications or changes to its production, without prior notice and take no responsibility for any errors in this publication.



ASME CLASS 600 FULL BORE

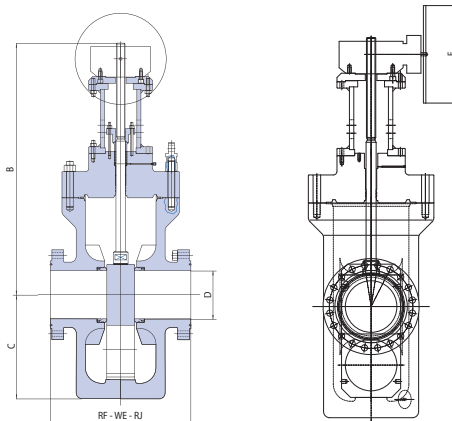
SLAB								
SIZE		D	RF	RJ	WE	B	C	E
2	in.	2.00	11.50	11.63	11.50	16.54	5.00	9.80
50	mm	51	292	295	292	420	130	250
3	in.	3.00	14.00	14.13	14.00	20.50	7.30	9.80
80	mm	76	356	359	356	520	185	250
4	in.	4.00	17.00	17.13	17.00	25.60	11.00	9.80
100	mm	102	432	435	432	650	280	250
6	in.	6.00	22.00	22.13	22.00	34.45	16.00	9.80
150	mm	152	559	562	559	875	409	250
8	in.	8.00	26.00	26.13	26.00	42.80	19.70	9.80
200	mm	203	660	663	660	1087	500	250
10	in.	10.00	31.00	31.13	31.00	50.80	22.00	11.80
250	mm	254	787	791	787	1290	560	300
12	in.	12.00	33.00	33.13	33.00	59.00	26.60	15.75
300	mm	305	838	841	838	1498	675	400
14	in.	14.00	35.00	35.13	35.00	66.00	28.30	15.75
350	mm	356	889	892	889	1677	720	400
16	in.	16.00	39.00	39.13	39.00	72.80	32.00	20.86
400	mm	406	991	994	991	1850	815	530
18	in.	18.00	43.00	43.13	43.00	81.00	35.00	20.86
450	mm	457	1092	1095	1092	2060	890	530
20	in.	20.00	47.00	47.25	47.00	88.40	36.60	31.50
500	mm	508	1194	1200	1194	2245	930	800
22	in.	22.00	51.00	51.38	51.00	100.40	43.00	31.50
550	mm	559	1295	1305	1295	2549	1095	800
24	in.	24.00	55.00	55.38	55.00	106.20	44.50	37.40
600	mm	610	1397	1407	1397	2697	1130	950
26	in.	26.00	57.00	57.50	57.00	109.00	46.00	37.40
650	mm	660	1448	1461	1448	2770	1170	950
28	in.	28.00	61.00	61.50	61.00	121.00	50.60	37.40
700	mm	711	1549	1562	1549	3068	1285	950
30	in.	30.00	66.30	66.50	66.30	130.00	55.70	37.40
750	mm	762	1651	1664	1651	3300	1415	950
32	in.	32.00	70.00	70.72	70.00	136.30	56.70	37.40
800	mm	813	1778	1794	1778	3462	1440	950
34	in.	34.00	76.00	76.52	76.00	146.00	60.00	37.40
850	mm	864	1930	1946	1930	3710	1525	950
36	in.	36.00	82.00	82.63	82.00	115.20	64.00	37.40
900	mm	914	2083	2099	2083	3839	1625	950

ASME CLASS 900 FULL BORE

SLAB								
SIZE		D	RF	RJ	WE	B	C	E
2	in.	2.00	14.49	14.61	14.49	17.70	5.30	9.80
50	mm	51	368	371	368	450	135	250
3	in.	3.00	15.00	15.12	15.00	21.20	7.30	9.80
80	mm	76	381	384	381	538	185	250
4	in.	4.00	17.99	18.11	17.99	26.60	9.25	9.80
100	mm	102	457	460	457	675	235	250
6	in.	6.00	24.02	24.13	24.02	38.60	13.40	15.25
150	mm	152	610	613	610	980	340	400
8	in.	8.00	29.02	29.13	29.02	48.00	17.00	20.86
200	mm	203	737	740	737	1220	435	530
10	in.	10.00	32.99	33.11	32.99	52.40	19.30	20.86
250	mm	254	838	841	838	1330	490	530
12	in.	12.00	37.99	38.11	37.99	60.00	2.80	20.86
300	mm	305	965	968	965	1525	580	530
14	in.	14.00	40.51	40.87	40.51	63.80	23.80	20.86
350	mm	356	1029	1038	1029	1620	605	530
16	in.	16.00	44.49	44.88	44.49	69.00	28.60	29.52
400	mm	406	1130	1140	1130	1755	726	750
18	in.	18.00	47.99	48.50	47.99	93.60	30.00	29.52
450	mm	457	1219	1232	1219	2377	760	750
20	in.	20.00	52.01	52.48	52.01	190.30	31.50	29.52
500	mm	508	1321	1334	1321	2776	800	750
24	in.	24.00	60.98	61.73	60.98	130.30	41.30	47.25
600	mm	610	1549	1568	1549	3310	1050	1200
28	in.	28.00	70.00	71.00	70.00	154.00	45.30	47.25
700	mm	711	1778	1800	1778	3913	1150	1200
30	in.	30.00	74.02	74.88	74.02	164.40	52.00	47.25
750	mm	762	1880	1902	1880	4175	1320	1200
32	in.	32.00	80.00	80.87	80.00	177.80	51.50	47.25
800	mm	813	2032	2054	2032	4517	1307	1200
34	in.	34.00	85.00	86.14	85.00	187.40	54.40	47.25
850	mm	864	2159	2188	2159	4760	1382	1200
36	in.	36.00	90.00	91.14	90.00	196.50	61.80	47.25
900	mm	914	2286	2315	2286	4990	1570	1200

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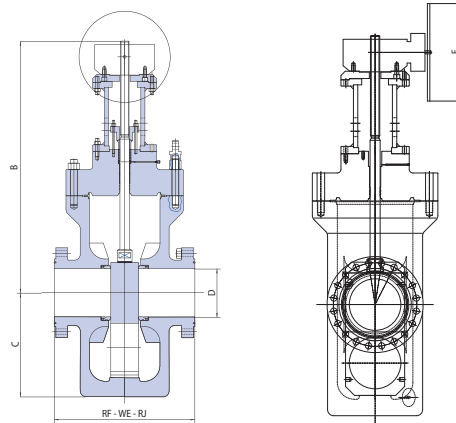


ASME CLASS 1500 FULL BORE

SIZE		SLAB						
		D	RF	RJ	WE	B	C	E
2	in.	2.00	14.49	14.61	14.49	21.00	5.50	9.80
50	mm	51	368	371	368	510	140	250
3	in.	3.00	18.50	18.62	18.50	26.50	7.70	9.80
80	mm	76	470	473	470	675	195	250
4	in.	4.00	21.50	21.61	21.50	29.30	10.45	20.47
100	mm	102	546	549	546	745	265	520
6	in.	6.00	27.76	27.99	27.76	42.50	12.85	26.00
150	mm	152	705	711	705	1080	326	660
8	in.	8.00	32.76	33.11	32.76	52.00	16.35	26.00
200	mm	203	832	841	832	1320	415	660
10	in.	10.00	39.02	39.37	39.02	58.50	18.25	29.52
250	mm	254	991	1000	991	1485	464	750
12	in.	12.00	44.49	44.61	44.49	63.60	21.65	32.28
300	mm	305	1130	1146	1130	1615	550	820
14	in.	14.00	49.49	50.24	49.49	72.00	24.00	32.28
350	mm	356	1257	1276	1257	1820	593	820
16	in.	16.00	54.49	55.35	54.49	77.50	27.50	37.40
400	mm	406	1384	1407	1384	1965	700	950
18	in.	18.00	60.51	61.38	60.51	98.00	30.00	37.40
450	mm	457	1537	1559	1537	2490	765	950
20	in.	20.00	65.51	66.38	65.51	116.15	32.00	47.25
500	mm	508	1664	1686	1664	2950	815	1200
24	in.	24.00	76.00	81.54	76.00	140.00	41.50	47.25
600	mm	610	1943	1972	1943	3550	1050	1200

ASME CLASS 2500 FULL BORE

SIZE		SLAB						
		D	RF	RJ	WE	B	C	E
2	in.	1.65	17.76	17.87	17.76	12.08	8.00	9.80
50	mm	42	451	454	451	307	203	250
3	in.	2.44	22.76	22.99	22.76	15.48	10.30	9.80
80	mm	62	578	584	578	339	262	250
4	in.	3.43	26.50	26.89	26.50	18.02	12.00	20.47
100	mm	87	673	683	673	458	305	520
6	in.	5.16	35.98	36.50	35.98	24.50	16.30	26.00
150	mm	131	914	927	914	622	414	660
8	in.	7.05	40.24	40.87	40.24	27.50	18.20	26.00
200	mm	179	1022	1038	1022	698	462	660
10	in.	8.78	50.00	50.87	50.00	34.00	22.65	29.52
250	mm	223	1270	1292	1270	864	575	750
12	in.	10.43	55.98	56.89	55.98	38.00	25.36	32.28
300	mm	265	1422	1445	1422	965	644	820



API CLASS 5000 FULL BORE

SLAB						
SIZE		D	RJ	B	C	E
2 1/16	in.	2.06	16.60	18.70	6.50	20.00
52	mm	52	371	475	165	500
2 9/16	in.	-	-	-	-	-
65	mm	-	-	-	-	-
3 1/8	in.	3.12	18.60	22.84	10.45	24.00
78	mm	78	473	580	265	600
4 1/16	in.	4.06	21.70	27.50	12.80	24.00
103	mm	103	549	700	325	600
5 1/8	in.	5.12	28.70	42.50	12.85	24.00
130	mm	130	727	1080	326	600
7 1/16	in.	-	-	-	-	-
200	mm	-	-	-	-	-
9	in.	-	-	-	-	-
228	mm	-	-	-	-	-
11	in.	-	-	-	-	-
274	mm	-	-	-	-	-

API CLASS 10000 FULL BORE

SLAB						
SIZE		D	RJ	B	C	E
1 13/16	in.	2.06	18.20	16.5	5.50	16.00
46	mm	46	463	421	140	400
2 1/16	in.	3.12	20.50	18.00	6.50	20.00
52	mm	53	521	460	165	500
3 1/16	in.	4.06	24.40	23.00	10.50	24.00
78	mm	78	619	580	265	600
4 1/16	in.	4.10	26.40	27.50	12.80	24.00
103	mm	104	670	700	325	600
7 1/16	in.	7.08	35.00	41.30	17.70	24.00
179	mm	180	889	1050	450	600
9	in.	9.00	43.00	43.70	22.05	32
228	mm	229	1092	1110	560	800
11	in.	11.02	47.00	62.80	26.80	32
279	mm	280	1194	1595	680	800